

sequence encoding said paramyxoviridae is modified by introduction of a heterologous sequence.

8. (new) The polynucleotide of Claim 7 wherein the viral genome is derived from respiratory syncytial virus.

9. (new) The polynucleotide of Claim 7 wherein the viral genome is derived from parainfluenza virus.

10. (new) The polynucleotide of Claim 7 wherein the heterologous sequence is derived from respiratory syncytial virus (RSV).

11. (new) The polynucleotide of Claim 7 wherein the heterologous sequence is derived from parainfluenza virus (PIV).

12. (new) An isolated polynucleotide molecule comprising an operably linked transcriptional promoter, a polynucleotide encoding a genome or antigenome of a paramyxoviridae and a transcriptional terminator, wherein said polynucleotide sequence encoding said paramyxoviridae is modified by introduction of a heterologous sequence, or by a nucleotide insertion or deletion.

13. (new) The isolated polynucleotide of Claim 12 wherein said nucleotide modification species is an attenuated phenotype.

14. (new) The polynucleotide of Claim 12 wherein the viral genome is derived from RSV.

15. (new) The polynucleotide of Claim 12 wherein the viral genome is derived from PIV

16. (new) A method for producing a recombinant paramyxoviridae comprising:

- (a) providing to a host cell a polynucleotide encoding a paramyxoviridae genome modified by the introduction of a mutation or a heterologous